

Title (en)  
WIND TURBINE CONTROL ARRANGEMENT

Title (de)  
WINDTURBINENSTEUERUNGSANORDNUNG

Title (fr)  
DISPOSITIF DE COMMANDE D'ÉOLIENNE

Publication  
**EP 4118326 A1 20230118 (EN)**

Application  
**EP 21721857 A 20210414**

Priority  
• EP 20171000 A 20200423  
• EP 2021059615 W 20210414

Abstract (en)  
[origin: EP3901454A1] The invention describes a control arrangement (10, 11, 12) of a wind turbine (1), which control arrangement (10) comprises a watchdog (11) comprising a reset module and a trigger module, wherein the watchdog reset module is configured to perform an internal reset when a sign-of-life signal (SoL) is received from a remote communication system (3) within a predetermined time limit ( $T_{\text{SoL}}$ ), and wherein the watchdog trigger module is configured to issue a watchdog trigger (11T) when the predetermined time limit ( $T_{\text{SoL}}$ ) is exceeded; a sensor arrangement comprising a number of sensors (S1, S2, ..., Sn) configured to observe local parameters and to report local sensor data; and a wind turbine controller (10) that initiates a local control sequence (100) in response to the watchdog trigger (11T), which local control sequence (100) is configured to switch between a first mode of operation (N, SP) and a second mode of operation (N, SP) on the basis of the local sensor data. The invention further describes a method of operating a wind turbine (1).

IPC 8 full level  
**F03D 7/04** (2006.01); **F03D 17/00** (2016.01)

CPC (source: EP US)  
**F03D 7/0264** (2013.01 - US); **F03D 7/042** (2013.01 - US); **F03D 7/043** (2013.01 - EP US); **F03D 7/045** (2013.01 - EP US); **F03D 7/047** (2013.01 - EP US); **F03D 17/00** (2016.05 - EP US); **Y02E 10/72** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 3901454 A1 20211027**; DK 4118326 T3 20240429; EP 4118326 A1 20230118; EP 4118326 B1 20240320; US 11988195 B2 20240521; US 2023137586 A1 20230504; WO 2021213853 A1 20211028

DOCDB simple family (application)  
**EP 20171000 A 20200423**; DK 21721857 T 20210414; EP 2021059615 W 20210414; EP 21721857 A 20210414; US 202117918846 A 20210414